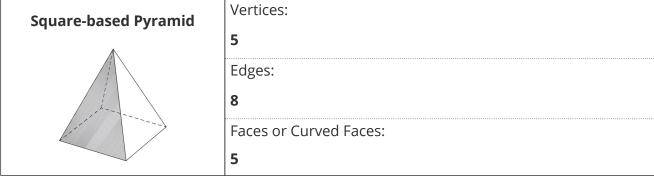
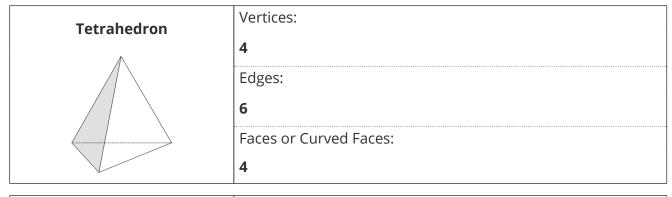
Your Turn

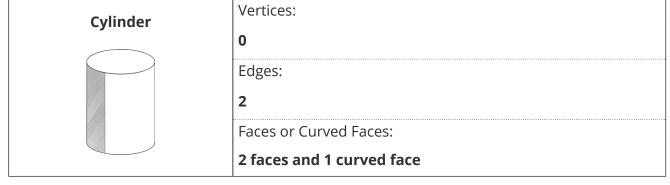
Complete the table for each 3D shape.

Vertices: 0 Cone (There are no edges that meet at the point of the cone so it is not, technically, a vertex). Edges: 1 Faces or Curved Faces: 1 face and 1 curved face Vertices: **Sphere** 0 Edges: 0 Faces or Curved Faces: 1 curved face Vertices: Cuboid 8 Edges: 12 Faces or Curved Faces: Vertices: **Triangular Prism** 6 Edges: 9 Faces or Curved Faces: 5 Vertices: **Square-based Pyramid**



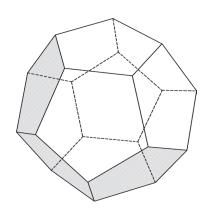
Cube	Vertices:
	8
	Edges:
	12
	Faces or Curved Faces:
	6





Challenge

A dodecahedron is made from 12 pentagons. Write down the number of faces, vertices and edges of a dodecahedron.



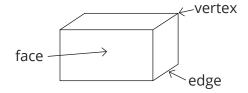
Vertices:	
20	
Edges:	
30	
Faces or Curved Faces:	
12	

3D shapes are **solid shapes**. These are the ones you need to know.

Cone	Sphere	Cuboid
Triangular Prism	Square-based Pyramid	Cube
Tetrahedron (triangle-based pyramid)	Cylinder	

There are different parts of 3D shapes you need to be able to spot. These are:

- vertices (corners/the points at which the edges meet a single point is called a vertex)
- **faces** (the flat surfaces)
- edges (the line where two faces meet).



If you are asked to write down the number of faces, edges and vertices of the cuboid, then simply count them up – but don't forget the hidden ones!

A cuboid has 6 faces, 8 vertices and 12 edges.

Your Turn

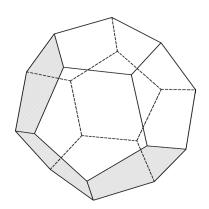
Complete the table for each 3D shape.

Cone	Vertices:
	Edges:
	Faces or Curved Faces:
Sphere	Vertices:
	Edges:
	Faces or Curved Faces:
Cuboid	Vertices:
	Edges:
	Faces or Curved Faces:
Triangular Prism	Vertices:
	Edges:
	Faces or Curved Faces:
Square-based Pyramid	Vertices:
	Edges:
	Faces or Curved Faces:

Cube	Vertices:
	Edges:
	Faces or Curved Faces:
Tetrahedron	Vertices:
	Edges:
	Faces or Curved Faces:
Cylinder	Vertices:
	Edges:
	Faces or Curved Faces:

Challenge

A dodecahedron is made from 12 pentagons. Write down the number of faces, vertices and edges of a dodecahedron.



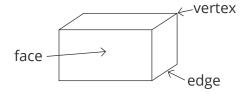
Vertices:				
Edges:				
Faces or	Curved Faces	•		

3D shapes are **solid shapes**. These are the ones you need to know.

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Your Turn

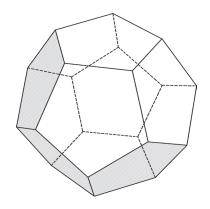
Complete the table for each 3D shape.

Cone	Vertices:
	Edges:
	Faces or Curved Faces:
Sphere	Vertices:
	Edges:
	Faces or Curved Faces:
Cuboid	Vertices:
	Edges:
	Faces or Curved Faces:
Triangular Prism	Vertices:
	Edges:
	Faces or Curved Faces:
Square-based Pyramid	Vertices:
	Edges:
	Faces or Curved Faces:

Cube	Vertices:
	Edges:
	Faces or Curved Faces:
Tetrahedron	Vertices:
	Edges:
	Faces or Curved Faces:
Cylinder	Vertices:
	Edges:
	Faces or Curved Faces:

Challenge

A dodecahedron is made from 12 pentagons. Write down the number of faces, vertices and edges of a dodecahedron.



Vertices:
Edges:
Faces or Curved Faces: